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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re application of:** Sridhar Srinivasan

**Application No.** 10/620,744

**Filed:** July 15, 2003

**Confirmation No.** 8976

**For:** IMPROVEMENTS TO THE SPATIAL-  
DOMAIN LAPPED TRANSFORM IN  
DIGITAL MEDIA COMPRESSION

**Examiner:** not yet assigned

**Art Unit:** 2631

**Attorney Reference No.** 3382-64473-01

**CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent  
for Applicant

*[Signature]*

Date Mailed

*October 18, 2005*

**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.


Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

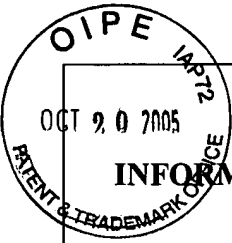
Respectfully submitted,

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Attorney Docket Number	3382-64473-01
Application Number	10/620,744
Filing Date	July 15, 2003
First Named Inventor	Srinivasan
Art Unit	2631
Examiner Name	not yet assigned

## **U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		5,970,173	October 19, 1999	Lee et al.
		5,973,755	October 26, 1999	Gabriel
		6,073,153	June 6, 2000	Malvar
		6,154,762	November 28, 2000	Malvar
		6,307,887	October 23, 2001	Gabriel
		6,324,560	November 27, 2001	Malvar
		6,370,502	April 9, 2002	Wu et al.
		6,487,574	November 26, 2002	Malvar
		6,496,795	December 17, 2002	Malvar

## **U.S. PATENT APPLICATION DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Filing Date	Name of Applicant or Patentee
		60/341,674	December 17, 2001	Lee et al.

## **OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
		de Queiroz et al., "Time-Varying Lapped Transforms and Wavelet Packets," <i>IEEE Transactions on Signal Processing</i> , Vol. 41, No. 12, pp. 3293-3305 (1993).
		Malvar, <u>Signal Processing with Lapped Transforms</u> , Artech House, Norwood, MA, pp. iv, vii-xi, 175-218, and 353-57 (1992).

EXAMINER  
SIGNATURE:

DATE  
CONSIDERED:

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	3382-64473-01
		Application Number	10/620,744
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		First Named Inventor	Srinivasan
		Art Unit	2631
		Examiner Name	not yet assigned
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>OTHER DOCUMENTS</b>	
		Malvar, "Lapped Transforms for Efficient Transform/Subband Coding," <i>IEEE Transactions on Acoustics, Speech and Signal Processing</i> , Vol. 38, No. 6, pp. 969-978 (1990).	
		Malvar, "Biorthogonal and Nonuniform Lapped Transforms for Transform Coding with Reduced Blocking and Ringing Artifacts," appeared in <i>IEEE Transactions on Signal Processing, Special Issue on Multirate Systems, Filter Banks, Wavelets, and Applications</i> , Vol. 46, 29 pp. (1998).	
		Shlien, "The Modulated Lapped Transform, Its Time-Varying Forms, and Its Applications to Audio Coding Standards," <i>IEEE Transactions on Speech and Audio Processing</i> , Vol. 5, No. 4, pp. 359-366 (July 1997).	
		ITU-T, "ITU-T Recommendation H.261: Video Codec for Audiovisual Services at $p \times 64$ kbits," 28 pp. (1993).	
		ITU-T, "ITU-T Recommendation H.262: Information Technology - Generic Coding of Moving Pictures and Associated Audio Information: Videol," 218 pp. (1995).	
		ITU-T, "ITU-T Recommendation H.263: Video Coding for Low Bit Rate Communication," 167 pp. (1998).	
		ISO/IEC, "ISO/IEC 11172-2: Information Technology - Coding of Moving Pictures and Associated Audio for Storage Media at up to About 1,5 Mbit/s," 122 pp. (1993).	
		ISO/IEC, "Information Technology - Coding of Audio-Visual Objects: Visual, ISO/IEC 14496-2, Committee Draft," 330 pp. (1998).	
		Joint Video Team (JVT) of ISO/IEC MPEG & ITU-T VCEG, "Joint Final Committee Draft (JFCD) of Joint Video Specification," JVT-D157, 207 pp. (August 2002).	
		Reader, "History of MPEG Video Compression - Ver. 4.0," 99 pp., document marked December 16, 2003.	
		Printouts of FTP directories from <a href="http://ftp3.itu.ch">http://ftp3.itu.ch</a> , 8 pp. (downloaded from the World Wide Web on September 20, 2005.)	

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